APRIL/MAY 2024

CBT62 — ENVIRONMENTAL BIOTECHNOLOGY

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is soil pollution?
2. Explain acids rain.
3. What is effluent?
4. Outline the various water borne disease.
5. What are Xenobiotics?
6. Summarize about metal biotechnology.
7. Define biogas.
8. Explain the term biofuel.
9. What is TOL?
10. Summarize the uses of microprobes.

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SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain phosphorus cycle.

Or

(b) Examine about green house gas and its effects.

12. (a) Identify the steps involved in technique of membrane filtration.

Or

(b) Analyze the chemical characteristics of sewage.

13. (a) Describe the methods involved in biodegradation of xenobiotics.

Or

(b) Examine the process of metal leaching.

14. (a) Identify the procedure involved production of hydrogen.

Or

(b) Organize the steps involved in production of algae hydrocarbons.

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15. (a) Analyze the impact of GEM in environment.

Or

(b) Examine about biosensors and its applications.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail about nitrogen cycle with illustration.

17. Discuss about the biological method for waste water treatment.

18. Explain about hazardous waste management.

19. Elaborate on the use of microorganisms in augmentation of petroleum recovery.

20. Discuss the role of GEM in degradation of industrial pollutants.

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